## **Masters**

Refer to the *In Advance* section in each lesson for more information about the number of copies required for each master. Masters marked with an asterisk (\*) are not needed if you use the CD-ROM version of the activity.

## Lesson 1, The Brain: What's Going On In There?

Activity 1: What Does the Brain Do?
Activity 2: Positron Emission Tomography and Brain Function
Master 1.1, Positron Emission Tomography (PET) Images*
Master 1.2, Interpreting PET Images Student Copies
Master 1.3, PET Image Tasks
Activity 3: Parts of the Brain
Master 1.4, Major Regions of the Brain Transparency
Master 1.5, Areas of the Cerebral Cortex and Their Functions
Activity 4: Who Was Phineas Gage?
Master 1.6, What Happened to Phineas Gage? Student Copies
Activity 5: Where Do Drugs Act?
Master 1.7, The Reward System
Lesson 2, Neurons, Brain Chemistry, and Neurotransmission
· · · · · · · · · · · · · · · · · · ·
Activity 1: Anatomy of a Neuron
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)
Activity 1: Anatomy of a Neuron  Master 1.7, The Reward System (from Lesson 1)

## Lesson 3, Drugs Change the Way Neurons Communicate

Activity 1: Drugs Alter Neurotransmission
Master 3.1, Cocaine Alters Neurotransmission
Master 3.2, Methamphetamine and Nicotine Disrupt Neurotransmission Transparency
Master 3.3, How Does Alcohol Affect Neurotransmission? Transparency
Activity 2: How Does Caffeine Affect You?
Master 3.4, Parent Letter Student Copies
Master 3.5, Caffeine: How Does Your Heart Respond? Student Copies
Activity 3: Routes of Administration
Master 3.6, How Do Drugs Get In the Body?
Master 3.7, What Should the Doctor Do? Transparency
Lesson 4, Drug Abuse and Addiction
Activity 1: How Does Drug Abuse Begin?
Activity 2: Drug Abuse is Voluntary; Addiction Is Compulsive
Master 4.1, Data for Rat Self-administration Experiment Student Copies
Master 4.2, Worksheet for Rat Experiment Data Student Copies
Master 4.3, Evaluating the Experiment
Activity 3: When Does Abuse Become Addiction?
Master 4.4, Playing the Game Transparency
Activity 4: Environmental, Behavioral, and Social Influences on Drug Abuse and Addiction
Master 4.5, Who Is Addicted? Transparency
Activity 5: Long-term Effects of Drug Abuse and Addiction
Master 4.6, Long-term Effects of Drugs on the Brain*Student Copies
Lesson 5, Drug Addiction Is a Disease—So What Do We Do about It?
Activity 1: How Effective Is Treatment?
Master 5.1, Ranking Disease Treatment Outcomes
Activity 2: Evaluating the Case Studies
Master 5.2, Ruth's Story*
Master 5.3, Mike's Story*
Master 5.4, Carol's Story*
Master 5.5, Disease Reference Information*
Master 5.6, Evaluating the Cases
Activity 3: Success Rates for Treating Chronic Illness
Activity 4: Addiction Is a Brain Disease